P17/8

LF/13/90
CRUISE PLAN

CHARTER CRUISE PROGRAMME H20

FRV *Lough Foyle*

1-21 September 1990

Ports

Loading	- Troon 1 September
Mid trip break	- Ullapool 11 September
Unloading	- Troon 21 September

Personnel

P W Rankine	HSO (in charge)
L Cargill	SO
E MacDonald (Miss)	SO
A N Other	Visitor (Netherlands - 1-11 September)
L Burren (Mrs)	Visitor (Aberdeen University - 12-21 September)

Objectives

1. To participate in the ICES coordinated herring larval surveys in Division VIa(N).
2. To collect live herring larvae for RNA/DNA analysis as part of an Aberdeen University study.
3. To pick out herring and all other fish larvae during the cruise.
4. To collect surface temperature and salinity data in the survey area.
5. To collect and preserve herring and other fish larvae for otolith studies.

Procedure

Sampling of standard ICES stations will be carried out using a Dutch Gulf III sampler, as in previous surveys. The attached station grid (Fig. 1) Division VIa(N), will be sampled at least twice during the cruise. Additional stations may be added as time permits.

Vertical net hauls will be carried out in areas of high larval concentration in order to collect live herring larvae. Radio tracer experiments will be carried out on these larvae on board the vessel.

General

Normal contacts will be maintained with the Laboratory. Regular radio contact will be made with foreign research vessels working in the three areas during the survey periods, in order to ensure optimum area coverage.

Herring larvae for RNA/DNA analysis will be preserved in liquid nitrogen. The usual safety precautions regarding the use of liquid nitrogen and radioactive material at sea will be enforced as in the Laboratory Safety Code of Practice.

Mrs Burren will join the vessel during the second half of the survey period.

D N MacLennan
16 August 1990

VIa(N) IHLS SURVEY GRID

Station	Position	Station	Position	Station	Position
1	5905 0410W	43	5825 0710W	89	5715 0810W
2	5905 0430W	44	5825 0730W	90	5715 0750W
3	5905 0450W	45	5825 0750W	91	5715 0735W
4	5905 0510W	46	5825 0810W	92	5715 0705W
5	5905 0530W	47	5815 0810W	93	5715 0650W
6	5905 0550W	48	5815 0750W	94	5715 0630W
7	5855 0630W	49	5815 0730W	95	5705 0630W
8	5855 0610W	50	5815 0710W	96	5705 0650W
9	5855 0550W	53	5815 0530W	99	5705 0750W
10	5855 0530W	54	5805 0530W	100	5705 0810W
11	5855 0510W	57	5805 0719W	101	5655 0810W
12	5855 0450W	58	5805 0730W	102	5655 0750W
13	5855 0430W	59	5805 0750W	104	5655 0650W
14	5855 0410W	60	5805 0810W	105	5655 0630W
15	5845 0410W	61	5755 0850W	106	5645 0630W
16	5845 0430W	62	5755 0830W	107	5645 0650W
17	5845 0450W	63	5755 0810W	110	5645 0750W
18	5845 0510W	64	5755 0750W	112	5635 0710W
19	5845 0530W	65	5755 0730W	113	5635 0650W
20	5845 0550W	66	5755 0719W	114	5625 0650W
21	5845 0610W	69	5755 0550W	115	5625 0710W
22	5845 0630W	70	5745 0555W	116	5935 0410W
23	5845 0650W	71	5745 0610W	117	5935 0430W
24	5845 0710W	72	5745 0630W	118	5935 0450W
25	5835 0750W	73	5745 0720W	119	5935 0510W
26	5835 0730W	74	5745 0730W	120	5935 0530W
27	5835 0710W	75	5745 0750W	121	5935 0550W
28	5835 0650W	76	5745 0810W	122	5925 0550W
29	5835 0630W	77	5745 0830W	123	5925 0530W
30	5835 0610W	78	5745 0850W	124	5925 0510W
31	5835 0550W	79	5735 0850W	125	5925 0450W
32	5835 0530W	80	5735 0830W	126	5925 0430W
33	5835 0510W	81	5735 0810W	127	5925 0410W
34	5838 0450W	82	5735 0750W	128	5915 0410W
35	5838 0430W	83	5735 0650W	129	5915 0430W
36	5838 0410W	84	5725 0650W	130	5915 0450W
37	5825 0515W	85	5725 0705W	131	5915 0510W
38	5825 0530W	86	5725 0735W	132	5915 0530W
41	5825 0630W	87	5725 0750W	133	5915 0550W
42	5825 0650W	88	5725 0810W		

Figure 1

VIA(N) IHLS SURVEY GRID